

ABSTRACT

A DEVICE FOR PULLING SINGLE CRYSTALS

The device comprises a crucible with a support, a heater and at least one heat-insulating screen, wherein, according to the invention, the heater is made of a starting flexible carbon-bearing material in the form of a cylinder whose ends are fixed between coaxially arranged rigid rings of carbon material that are connected to a power supply. And, the heater is made so that the wall thereof has its thickness determined from the relationship:

$$\delta \cdot \rho \cdot c = 500 \text{ to } 8500 \text{ J/m}^2 \cdot \text{K}, \text{ where:}$$

δ – heater wall thickness, m; ρ – density of the material the heater is made of, kg/m^3 ; and
 c – specific heat of the material the heater is made of (at working temperature), $\text{J/kg} \cdot \text{K}$.

6 dependent claims, 5 figures.